

**From:** Mindy Kairis/DC/USEPA/US  
**Sent:** 7/22/2010 2:00:05 PM  
**To:** Jeanne Briskin/DC/USEPA/US@EPA  
**CC:** Carrie Wehling/DC/USEPA/US@EPA  
**Subject:** Nonresponsive

Jeanne-

Nonresponsive

Thanks,  
Mindy

Mindy Kairis  
Attorney Adviser  
Water Law Office  
U.S. Environmental Protection Agency  
1200 Pennsylvania Ave, NW (MC 2355A)  
Washington, DC 20460  
Phone (202) 564-0883  
Fax (202) 564-5477

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**From:** Jeanne Briskin/DC/USEPA/US  
**To:** Kevin Teichman/DC/USEPA/US@EPA, Fred Hauchman/DC/USEPA/US@EPA, Audrey Levine/DC/USEPA/US@EPA  
**Cc:** Peter Fargo/DC/USEPA/US@EPA, Robert Puls/ADA/USEPA/US@EPA, Jill Dean/DC/USEPA/US@EPA, Andrew Stewart/DC  
**Date:** 07/22/2010 01:46 PM  
**Subject:** Nonresponsive

Nonresponsive

----- Forwarded by Jeanne Briskin/DC/USEPA/US on 07/22/2010 01:43 PM -----

**From:** Jerry Goedert <jgoedert@petrogulf.com>  
**To:** "info@ap.org" <info@ap.org>  
**Cc:** Robert Puls/ADA/USEPA/US@EPA, Jeanne Briskin/DC/USEPA/US@EPA, Rebecca Foster/ADA/USEPA/US@EPA, Steven I  
**Date:** 07/22/2010 12:05 AM  
**Subject:** Mark Levy and Mary Esch Associated Press article "EPA drills down on 'fracking' technique"

Dear Mr. Levy and Ms. Esch,

This article is a great disservice to the general public. It perpetuates several myths present in the media and unfortunately on the EPA website. How can people who are largely unfamiliar with the oil and gas industry form a balanced opinion about fracing if the articles they read from respected sources such as AP contain distortions and poorly researched information? Here are a few specific points:

- 1) The subtitle and second paragraph is inaccurate. Fracing is not a “drilling technique”. It is a process that may or

may not be performed, but if performed always follows drilling. This portion of a well's development is referred to generally as the “completion” of the well. Fracing has been performed for over 50 years, so it is difficult to characterize it as "controversial." What seems to have gotten some attention recently is that several unrelated incidents are being grouped together to gain numbers of incidents cited and erroneously referred to as relating to fracing. Most, if not all, of the incidents are either indirectly related to the portion of the process where the frac fluid is pumped into wells or not related at all. For example, a truck accident where frac fluid is spilled, is indirectly related to fracing and should be separated from the specific issue that EPA is investigating.

2) Using the phrase in the second paragraph “...that some fear could pollute water above and below ground” as some sort of reasoning to write an article or conduct an investigation is weak. People fear many things without a sound basis. In any event, this should be put into context – how many tens of thousands of wells have been fraced compared to how many people that have real impacts? Also, what does "serious concern" from the last paragraph mean? Is that ten people yelling loudly? Perhaps the advent of blogs and social media have made it much easier for a very few determined individuals to make it seem that there is a "serious concern". My intuition tells me that many people with other complaints about the oil and gas industry will join into this this study out of convenience. Might someone who just doesn't like wells drilled near their home complain that they are concerned about fracing? Maybe people who feel that the U.S. should reduce consumption of fossil fuels will see this as a means to an end. My experience is that when the mineral interest is severed from the land ownership, the land owner is much more critical of oil and gas operations on their property.

3) Frac fluid is not millions of gallons of water “brewed” with “toxic” chemicals. First, you should attempt to put these so-called toxic chemicals into context by stating that only 0.14 percent of frac fluid is something other than water and sand. Next, please use more precise language than “toxic” concerning those chemicals. Water can be toxic – see water intoxication. The chemicals used could be harmful if people were exposed to large enough quantities. However, the likelihood of this occurring before or after a frac job is remote. Discussing this in the manner that you have sets up hysteria usually reserved for radioactivity. The three important variables concerning toxicity are 1) length of exposure time, 2)concentration of the chemical, and 3)chemical toxicity.

4) The fact that EOG has been penalized for a blowout has nothing to do with fracing. Cabot's fines for spills again may at most be indirectly related to fracing. Why don't you include that the State agencies responsible for investigating the incidents in Colorado and Wyoming (States that I am aware of) have concluded that there are no instances where fracing has directly led to drinking water contamination?

It seems that because of the BP incident, journalists have been given free license to jump to conclusions regarding oil and gas development activities that have been regarded as safe for many years. At the very least, please use correct terminology to discuss the issue of fracing.

I would be happy for you to send me a draft version of any future articles that you plan to publish. Please take this as a sincere offer of assistance. I have an extensive background both in oil and gas operations and in environmental investigations. At least I could help you present technically correct information.

References

- 1. Range Resources Frac Disclosure 7-14-2010 (attached)

Sincerely,

Jerry

Jerry Goedert  
Operations Engineer  
Petrogulf Corporation  
518 17th St., Ste. 1525  
Denver, CO 80202  
Office 303-893-5400 ext. 150  
Cell 303-968-8828  
Fax 303-893-0519  
jgoedert@petrogulf.com

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EPA drills down on 'fracking' technique

Controversial drilling technique free from federal regulation gets new look

by Marc Levy, Mary Esch

updated 7/20/2010 8:50:34 PM ET

HARRISBURG, Pa. — So vast is the wealth of natural gas locked into dense rock deep beneath Pennsylvania, New York, West Virginia and Ohio that some geologists estimate it's enough to supply the entire East Coast for 50 years.

But freeing it requires a powerful drilling process called hydraulic fracturing or "fracking," using millions of gallons of water brewed with toxic chemicals, that some fear could pollute water above and below ground and deplete aquifers.

As gas drillers swarm to this lucrative Marcellus Shale region and blast into other shale reserves around the country, the U.S. Environmental Protection Agency is taking a new look at the controversial fracking technique, currently exempt from federal regulation. The \$1.9 million study comes as the nation reels from the Deepwater Horizon environmental and economic disaster playing out in the Gulf of Mexico.

The oil and gas industry steadfastly defends the process as having been proven safe over many years as well as necessary to keep the nation on a path to energy independence.

Studies have "consistently shown that the risks are managed, it's safe, it's a technology that's essential ... it's also a technology that's well-regulated," said Lee Fuller, director of the industry coalition Energy In Depth.

"A fair study," Fuller added, "will show that the procedures that are there now are highly effective and do not need to be altered — the federal government does not need to be there."

But because of the oil disaster, conservation groups say the drilling industry has lost its credibility and the rapid expansion of shale drilling needs to be scrutinized.

"People no longer trust the oil and gas industry to say, 'Trust us, we're not cutting corners,' " said Cathy Carlson, a policy adviser for Earthworks, which supports federal regulation and a moratorium on fracking in the Marcellus Shale.

Just six years ago, an EPA study declared the fracking process posed "little or no threat to underground sources of drinking water" and with that blessing, Congress a year later exempted hydraulic fracturing from federal regulation.

Now the agency, prodded by Congress even before the Gulf disaster and stung by criticism that its 2004 study was scientifically flawed and maybe politically tainted, will bring the issues to the heart of the land lease rush in the Marcellus Shale: Canonsburg, Pa., on Thursday and Binghamton, N.Y., on August 12.

EPA hearings earlier this month in Fort Worth, Texas and Denver focused on issues including drilling in the Barnett Shale of Texas, and in Colorado and Wyoming, which have experienced similar natural gas booms. Natural gas is also being recovered from the Haynesville Shale in north Louisiana, the Fayetteville Shale in northern Arkansas and Woodford Shale in southern Oklahoma.

In Texas, where drillers have sunk more than 13,000 wells into the Barnett Shale in the past decade, fear of the cancer-causing chemical benzene in the air above gas fields from processing plants and equipment has spurred tests by environmental regulators and criticism of the state's safeguards. In Colorado, numerous residents contend gas drilling has spoiled their water wells.

Advancements in horizontal drilling and hydraulic fracturing technology in the late 1990s significantly increased the yield and economic viability of tapping shale gas wells and led to the current natural gas boom, starting in Texas with the Barnett Shale. Fracking is now considered the key to unlocking huge, untapped natural gas reserves across the United States at a time when natural gas is emerging as a greener energy alternative to coal or oil.

The Marcellus Shale is 10 times the size of the Barnett, spanning 50,000 square miles compared with the 5,000-square-mile Barnett. It is also three times thicker than the Barnett at up to 900 feet, and is estimated to have a potential yield of 10 times as much gas (500 trillion cubic feet versus 50 trillion cubic feet).

At stake in the debate over how best to manage and regulate this enormous new natural resource is not just the safety of water supplies but also thousands of jobs, profits for the gas drilling and delivery industry and a bonanza of royalties for landowners.

"We've got to get it right," said Sen. Bob Casey, D-Pa., a sponsor of the so-called FRAC Act, which would repeal the 2005 exemption and require regulation of fracking by the EPA under the federal Safe Drinking Water Act.

"We allowed coal over many, many decades to be an industry that was so unregulated that it was allowed to do virtually whatever it wanted, and now we have numerous environmentally adverse impacts," he said.

Though the drilling rush into Pennsylvania is barely two years old, more than 3,500 permits have been issued and about 1,500 wells drilled, with thousands more expected. Environmental problems are already bubbling up: methane leaks contaminating private water wells, major spillage of diesel and fracking chemicals above ground, and fish kill in a creek.

A well blowout in north central Pennsylvania last month spewed natural gas and toxic fracking water out of control for 16 hours. State regulators found EOG Resources Inc. of Houston had failed to install a proper blowout prevention system — taking cost shortcuts. The state fined EOG Resources and a contractor more than \$400,000.

A wary New York state has had a virtual moratorium on drilling permits for the Marcellus Shale region for two years while it completes an environmental review.

Fear of water pollution is so high that a sweet spot of the Marcellus Shale — the Delaware River watershed in southern New York and northeastern Pennsylvania that provides drinking water for 17 million people from Philadelphia to New York City — is virtually off-limits to drilling for now.

The industry says there is no evidence that fracking chemicals — some of them suspected human carcinogens — contaminate drinking water, wells or aquifers once blasted deep underground.

EPA summarized numerous reports of "water quality incidents" in residential wells, homes, or streams in Alabama, Colorado, Montana, New Mexico, Virginia, West Virginia and Wyoming but said there was inconclusive evidence linking the incidents to fracking.

Hydraulic fracturing, first used commercially in 1949 by petroleum services giant Halliburton Co. of Houston, was developed to eke gas and oil from impermeable rock. Water mixed with chemicals and sand is injected at high pressure to fracture shale, the sand holding fractures open so gas can flow up the well.

Each frack job uses an average of 4 million gallons of water, delivered to a well site by hundreds of tanker trucks. Some of the "produced" wastewater remains in the well — estimates range from 20 percent to 90 percent. What comes back up the well — briny, chemical-laden and possibly radioactive from exposure to naturally existing radon underground — is usually stored in open pits until it's trucked to treatment plants or underground injection wells.

In the northeastern Pennsylvania town of Dimock, state regulators have repeatedly penalized Houston-based Cabot Oil & Gas Corp. for contaminating the drinking water wells of 14 homes with leaking methane and for numerous spills of diesel and chemical drilling additives, including one that contaminated a wetland and killed fish.

Even as Pennsylvania officials work to improve their regulation of drilling, the state's environmental protection secretary does not want to cede authority.

"I'm not ready to turn Pennsylvania's resources over to the federal government," said John Hanger. "Right now, Pennsylvania has just about the very best drilling oversight in the country and we continue to keep working at it every day."

Hanger is quick to criticize the regulatory debacle of the federal Minerals Management Service and its cozy relationship with oil and gas corporations before the Deepwater Horizon explosion on April 20.

"That agency was captured by the drilling industry," he said.

The industry says it believes state oversight is sufficient and worries the new EPA study will lead to new and costly safety and environmental rules that would rob them of decades of profits.

In West Virginia, however, state officials concede they're overwhelmed trying to regulate the Marcellus juggernaut that has added hundreds of Marcellus wells to tens of thousands of traditional, shallow gas wells.

If passed, the FRAC Act would remove what's widely known as the "Halliburton loophole" — which exempted fracking from the Safe Drinking Water Act when the 2005 energy bill was passed.

The EPA, in a statement to The Associated Press, did not criticize its previous study. But given the rapid expansion of the industry and "serious concerns" about the impact of hydraulic fracturing, the agency said it concluded it was necessary to conduct a peer-reviewed study that draws upon best available science, independent experts and the public.

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